

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



INTERNATIONAL BUREAU OF PATENT COOPERATION  
35, rue de la Harpe, CH-1015, Yverdon, Suisse  
P.O. Box 6583, CH-1011, Yverdon, Suisse  
P.O. Box 1734, Armonk, NY 10504, USA  
P.O. Box 1734, Armonk, NY 10504, USA

(43) International Publication Date  
29 March 2001 (29.03.2001)

PCT

(10) International Publication Number  
WO 01/21359 A1

(51) International Patent Classification<sup>7</sup>: B25C 1/14, 1/18

Charles [AU/AU]; 33 Wildwood Avenue, Vermont South,  
Victoria 3133 (AU).

(21) International Application Number: PCT/AU00/01136

(22) International Filing Date:  
18 September 2000 (18.09.2000)

(74) Agents: HIND, Raymond, Stenton et al.; Davies Colli-  
son Cave, 1 Little Collins Street, Melbourne, Victoria 3000  
(AU).

(25) Filing Language: English

(81) Designated States (*national*): CA, NZ, SG, US.

(26) Publication Language: English

(84) Designated States (*regional*): European patent (AT, BE,  
CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC,  
NL, PT, SE).

(30) Priority Data:  
PQ 2924 17 September 1999 (17.09.1999) AU

(71) Applicant (*for all designated States except US*): RAMSET  
FASTENERS (AUST.) PTY. LIMITED [AU/AU]; Ma-  
roondah Highway, North Croydon, Victoria 3136 (AU).

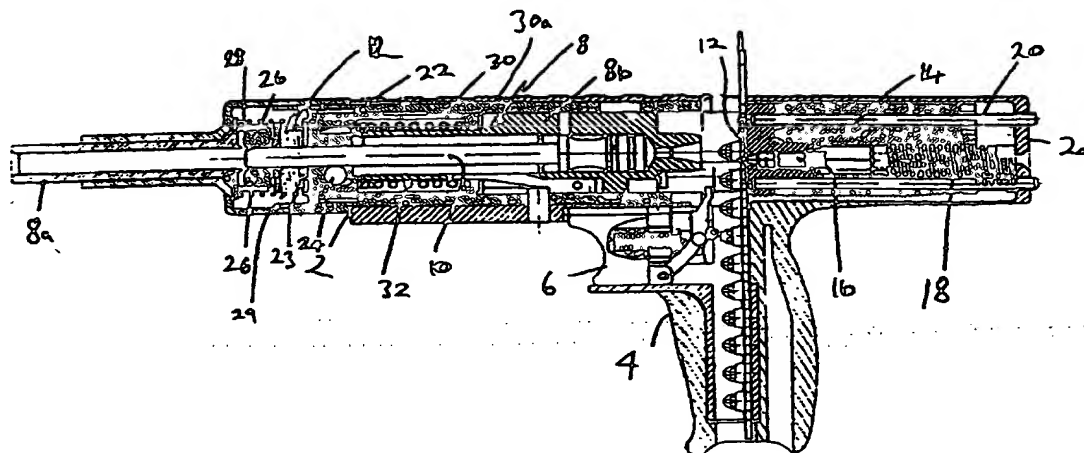
Published:  
— With international search report.

(72) Inventor; and

(75) Inventor/Applicant (*for US only*): CLARK, Philip,

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: POWER ACTUATED TOOLS



(57) Abstract: An explosively operated tool (1) for driving a fastener into a substrate such as steel or concrete has a resetting mechanism (12) for resetting a piston (10) of the tool into a rear part (2a) of a barrel assembly (8) of the tool after each firing of the tool. The barrel assembly (8) is mounted for axial movement within the tool housing (2) and co-operates with a mass mounted for rearwards movement relative to the housing (2) in opposition to a biasing force to absorb recoil on firing of the tool. The resetting mechanism (12) for resetting the piston (10) into a rear part (2a) of the barrel assembly after firing is powered in response to displacement of the mass on recoil.